



**RDAS**

# RDAS

## Getting Started

Survey of Earned Doctorates (SED)

### Contact Us

RDAS\_Support@rti.org

<https://ncesdata.nsf.gov/rdas>

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# RDAS & Survey of Earned Doctorates (SED)

This tutorial provides instructions for accessing the SED RDAS tool and an overview of the functions of the RDAS application.

In the RDAS, you can calculate:

- One-way and multi-way count and percentage distribution tables;
- Multi-way count and average/median tables;
- Multi-way count, percent greater/less than, and percent equal/not equal table;

The RDAS can:

- Apply nested variables to row and column variable categories; and
- Filter data by categorical variables.

Doctoral institution public/private indicator, by Broad doctorate field, Postgraduation employment status: 2018						
Doctoral institution public/private indicator						
	Total		Public		Private	
	Number	Percent	Number	Percent	Number	Percent
Total	55,184	100%	38,594	69.9%	16,590	30.1%
Broad doctorate field						
Life sciences	12,776	100%	9,003	70.5%	3,773	29.5%
Physical sciences and earth sciences	6,335	100%	4,519	71.3%	1,816	28.7%
Mathematics and computer sciences	4,030	100%	2,939	72.9%	1,091	27.1%
Psychology and social sciences	8,897	100%	5,804	65.2%	3,093	34.8%
Engineering	10,182	100%	7,480	73.5%	2,702	26.5%
Education	4,831	100%	3,838	79.4%	993	20.6%
Humanities and arts	5,143	100%	2,992	58.2%	2,151	41.8%
Other non-science and engineering fields	2,990	100%	2,019	67.5%	971	32.5%
Postgraduation employment status						
Has employment offer or continuing predoctoral employment	37,791	100%	26,142	69.2%	11,649	30.8%
Negotiating employment	3,001	100%	2,204	73.4%	797	26.6%
Seeking employment	12,667	100%	9,176	72.4%	3,490	27.6%
Other	1,725	100%	1,071	62.1%	654	37.9%

# Accessing the RDAS

The RDAS is available at <https://ncesdata.nsf.gov/rdas/> ➔

To access the RDAS, create an user account as follows:

1. Click the orange button labeled "Login" to open the login window. Review the NCSES Data Use Agreement.
2. Click the blue link that reads "CREATE ACCOUNT."
3. Enter your e-mail address and desired password in areas labeled "E-mail" and "Password"
4. Click "AGREE & LOGIN".
5. You will receive an e-mail to register and activate your RDAS account. Click the link provided in the e-mail to return to the RDAS application.
6. You will be taken to the workspace shown on the next page.

The screenshot shows the RDAS (Research Data Analysis System) interface. At the top right, there is an orange "LOGIN" button (callout 1). Below it, the "ABOUT RDAS" section explains that the RDAS is an interactive data analysis tool for examining the Survey of Earned Doctorates (SED). In the center, a "Login" window is open, featuring input fields for "E-mail" and "Password" (callout 3). Below the login window is the "NCSES DATA USE AGREEMENT" section, which contains text about data confidentiality and usage rules. At the bottom of the agreement, there are three buttons: "CREATE ACCOUNT" (callout 2), "FORGOT PASSWORD", and "AGREE & LOGIN" (callout 4).

# RDAS Workspace

## 1. VARIABLE MENU

Variables are listed here by topic. Click to expand a topic and see variables within or enter a variable name or search term in the box labeled “Search Variables” to see results. Click on a variable for more info or to add to your data table.

## 2. ADD ROW VARIABLE

Drag variables here to add them as rows in your data table. Once added, variable labels will appear here.

## 3. ADD COLUMN VARIABLE

Drag variables here to add them as columns in your data table. Column variable labels appear here.

## 4. ADD NESTED VARIABLE\*

Drag variables here to nest a variable’s categories within row or column variable categories.

## 5. ADD FILTER VARIABLE

Drag variables here to filter your analysis by a selected filter variable category.

**2018 Survey of Earned Doctorates (SED)**

Home Workspace Hello RDAS User

1 Search Variables:

2 ADD ROW VARIABLE Drag row variable here for one-way analysis

3 ADD COLUMN VARIABLE Drag column variable here for two-way analysis

4 NESTED VARIABLE Drag variable here for nested variable

5 ADD FILTER VARIABLE Drag variable here to add a filter to the table

Broad doctorate field, by Citizenship status: 2018

	Broad doctorate field		Equal to Engineering	
	Number	Percent	Number	Percent
Total	55,184	100%	10,182	18.5%
Citizenship status				
U.S. citizen and permanent resident	36,887	100%	4,398	11.9%
Temporary visa holder	18,297	100%	5,784	31.6%

The name(s) of the variables used in this table are: SRFOS1, and CITIZ\_R. The variable names are unique identifiers. To locate these variables, enter the variable name in the search box.

Source: National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2018.

\* Variable nesting is not available when a column variable is used for a percentage distribution

# Variable Menu

The variable menu is on the left-hand side of the RDAS workspace. Variable topics are listed alphabetically. Click and expand a topic to see all variables that belong to the selected topic.

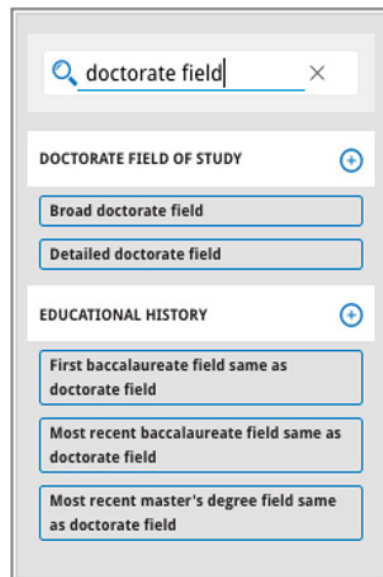
Variables can be dragged from the variable menu directly to the row, column, nested, or filter variable areas of the workspace to be added to your data table. Clicking on a variable will launch the variable options window. More details regarding the variable options window are available on the following page.

There are two ways to search for variables in the variable menu. They are:

## Search by keyword

You can search for variables using keywords, for example, “doctorate field” or “salary.” To search by search term, enter the search term (e.g., “doctorate field”) in the box labeled “Search Variables.”

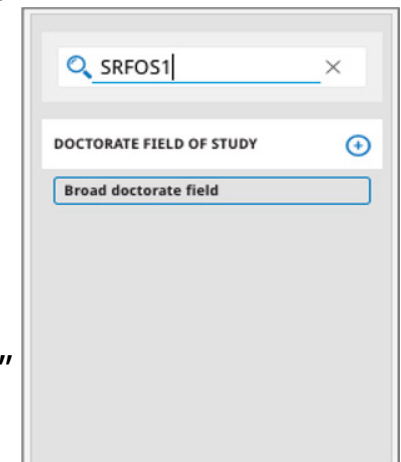
Variables with “doctorate field” in their label appear in the left-hand variable menu under the heading “Search Results.”



## Search by variable name

If you know the name of the variables you wish to use, you can search for them by name. To search by variable name, enter the variable name (e.g., “SRFOS1”) in the box labeled “Search Variables.”

Results for SRFOS1 will appear in the left-hand variable menu.




# Variable Options

The variable options window includes options to add the variable to your table and additional variable details. To access the variable options window, click on any variable in the variable menu or, once a variable has been added to your data table, click on the pencil icon beside the variable label. The variable options window is made up of the components listed on this page.

## 2. VIEW DESCRIPTIVE STATISTICS

The View Descriptive Statistics tab includes detailed information about variable categories or value ranges, counts for each category, frequencies for each response category, and the minimum, maximum, average, and standard deviation for continuous variables.

**2** VARIABLE INFORMATION

Doctoral institution Carnegie Classification 

An aggregated version of the 2015 Basic Carnegie Classification of the institution granting the respondent's doctoral degree.


USE VARIABLE VIEW DESCRIPTIVE STATISTICS GET MORE INFO

Value	Label	Count	Percent
1	Doctoral Universities: Highest Research Activity	41,601	75.4%
2	Doctoral Universities: Higher Research Activity	8,740	15.8%
3	Doctoral Universities: Moderate Research Activity	2,552	4.6%
4	Other	2,291	4.2%

## 1. USE VARIABLE

These action buttons will add a variable to your table as a row, column, filter, or nested row/column.


**1** VARIABLE INFORMATION


Doctoral institution Carnegie Classification 


An aggregated version of the 2015 Basic Carnegie Classification of the institution granting the respondent's doctoral degree.


USE VARIABLE VIEW DESCRIPTIVE STATISTICS GET MORE INFO


Click one of the options below to apply the variable

 Row

 Column

 Filter

 Nested Row


 Nested Column

CANCEL

## 3. GET MORE INFO

The Get More Info tab includes additional variable metadata (such as variable name, notes for each survey year that the variable is available).

**3** VARIABLE INFORMATION

Doctoral institution Carnegie Classification 

An aggregated version of the 2015 Basic Carnegie Classification of the institution granting the respondent's doctoral degree.

USE VARIABLE VIEW DESCRIPTIVE STATISTICS GET MORE INFO

Name: PHDCARN\_R

Doctorate Records File (DRF) source name: PHDCARN

Label: Doctoral institution Carnegie Classification

Notes: These categories are from the 2015 Carnegie Classifications and, therefore, reflect the characteristics of the institutions in the 2013-14 academic year. Institutions might be classified differently using a different timeframe.

Applies to: Applies to all respondents.

# Table Output Options

## 1. Calculation

Toggle between estimates, standard errors, relative standard errors, or confidence intervals.

## 2. Download

Save your data table in CSV/Excel and PDF format or download your table specifications for future import into the NSF RDAS.

## 3. Upload table

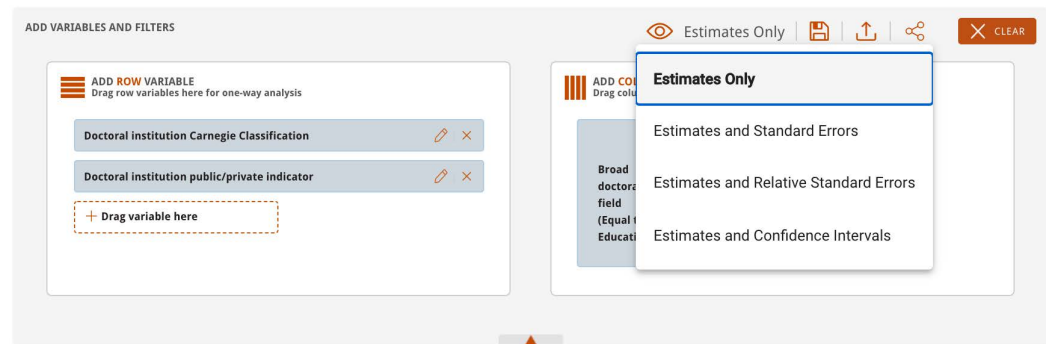
Upload previously saved table specifications to view, edit, or save previously created tables.

## 4. Sharing

Create a link to share your table or share a link directly via e-mail.

## 5. Edit

Edit your table's title.



ADD VARIABLES AND FILTERS

Estimates Only

- Estimates and Standard Errors
- Estimates and Relative Standard Errors
- Estimates and Confidence Intervals

Broad doctorate field, by Doctoral institution Carnegie Classification, Doctoral institution public/private indicator: 2019				
Broad doctorate field				
	Total		Equal to Education	
	Number	Percent	Number	Percent
Total	55,703	100%	4,635	8.3%
Doctoral institution Carnegie Classification				
Doctoral Universities: Highest Research Activity	41,975	100%	2,698	6.4%
Doctoral Universities: Higher Research Activity	8,732	100%	1,341	15.4%
Doctoral Universities: Moderate Research Activity	2,511	100%	458	18.2%
Other	2,486	100%	139	5.6%
Doctoral institution public/private indicator				
Public	38,808	100%	3,749	9.7%
Private	16,895	100%	886	5.2%



# Learn More About NCSES and SED

## Learn more about NCSES

For information about the National Center for Science and Engineering Statistics (NCSES), visit the NCSES homepage at:

<https://ncses.nsf.gov/> ➞

## Learn more about SED

For more information about the Survey of Earned Doctorates (SED) and access other SED data products, visit:

<https://www.nsf.gov/statistics/srvydoctorates/> ➞

## Contact Us

Have other questions about the RDAS tool? Contact us by e-mail at:

[RDAS\\_support@rti.org](mailto:RDAS_support@rti.org) ➞